

#### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20221 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/915,643	07/26/2001	Makoto Ikeda	12052.44US01	7982	
23552	590 01/29/2003				
MERCHANT & GOULD PC			EXAMINER		
P.O. BOX 290	3	LEE DATINGUL			
MINNEAPOL	MINNEAPOLIS, MN 55402-0903			LEE, PATRICK J	
			ART UNIT	PAPER NUMBER	
			2878		
			DATE MAILED: 01/29/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		Application No.	Applicant(s)	J			
, Office Action Summary		09/915,643	IKEDA, MAKOTO	IKEDA, MAKOTO			
		Examiner	Art Unit				
		Patrick J. Lee	2878				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status 1)⊠	Responsive to communication(s) filed on 26	July 2001 .					
2a)□	•	his action is non-fina	al.				
3)	Since this application is in condition for allow			the merits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>							
4) Claim(s) 1-10 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🖂	Claim(s) <u>1-3, 10</u> is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>4-9</u> is/are rejected.						
•	Claim(s) <u>1</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers							
9)[] -	The specification is objected to by the Examin	er.					
10)⊠ The drawing(s) filed on <u>26 July 2001</u> is/are: a)⊠ accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) 🔲 🛚	The proposed drawing correction filed on	is: a)∏ approved	b) ☐ disapproved by the Exam	niner.			
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[	☑ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documer						
	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice 2) Notice	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	nterview Summary (PTO-413) Paper Notice of Informal Patent Application ( Other:					

Application/Control Number: 09/915,643

Art Unit: 2878

### **DETAILED ACTION**

#### **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Objections

2. Claim 1 is objected to because of the following informalities: In line 3 of claim 1 on page 20, "it" is vague and should read "the illuminating light". Appropriate correction is required.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamashita 5,182,445 in view of Tabata et al 6,333,779. With respect to claims 4-7, Yamashita teaches a contact type line sensor comprising of a reflective curved wall (13) and a light source space (21) serving as a light guiding section, with an oval shaped acrylic plate (17) as a light condensing section (see column 3, lines 51-54). Resin casing (12) surrounds both the light guiding and condensing sections. However, Yamashita does not teach that the light-emitting source disposed at the end surface to the longitudinal direction in order to illuminate upon light scattering patterns. Tabata et al disclose an illumination apparatus with light emitting elements (1) disposed

Application/Control Number: 09/915,643

Art Unit: 2878

longitudinally from the light guide (2). The light emitting elements (1) shine light onto light scattering patterns (4). To modify the device of Yamashita with the teaching from Tabata et al would have been obvious to one of ordinary skill, as it would eliminate the need for an array of light emitting devices (Yamashita 5).

With respect to claim 8, the use of a reflecting means is known and would have been obvious to one of ordinary skill in the art as using such would not require the additional light emitting devices disposed at the other longitudinal end of the device and may also improve the light intensity incident onto the document surface.

### Allowable Subject Matter

- 5. Claims 1-3, & 10 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

With respect to claim 1, the use of a chamfer to provide a light scattering plane is not taught by the prior art and would not have been obvious to do so. As a result, claim 1 is allowed, as are dependent claims 2-3 & 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 09/915,643

Art Unit: 2878

Page 4

8. The following is a statement of reasons for the indication of allowable subject

matter:

With respect to claim 9, the prior art does not teach the concept of increasing the

density of light scattering patterns further away from the light source.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Fujimoto et al 6,259,082 teach an image reading apparatus.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Patrick J. Lee whose telephone number is (703) 305-

3871. The examiner can normally be reached on Monday through Friday, 8:00 am to

5:30 pm,.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David P. Porta can be reached on (703) 308-4852. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 746-9558

for regular communications and (703) 306-5511 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

1782.

Patrick J. Lee Examiner

Art Unit 2878

January 23, 2003

DAME BASTA

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800